

mine plan
as submitted
4/17/83 YH

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES AND ENERGY
in and for the STATE OF UTAH

IN THE MATTER OF APPROVAL OF THE
NOTICE OF INTENT AND RECLAMATION
PLAN SUBMITTED BY SHALE
DEVELOPMENT CORPORATION, UINTAH
COUNTY, UTAH

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ORDER TO SHOW CAUSE
NO. ACT/047/005

THE STATE OF UTAH TO ALL OPERATORS, TAKERS OF PRODUCTION, MINERAL AND ROYALTY OWNERS, AND PARTICULARLY ALL PERSONS INTERESTED IN SECTIONS 28, 29 AND 33, TOWNSHIP 11 SOUTH, RANGE 18 EAST, UINTAH COUNTY, UTAH.

Notice is hereby given that tentative approval was given by the Division of Oil, Gas and Mining, on March 24, 1983, to Shale Development Corporation, to commence surface mining and retort testing, limited to twenty (20) acres of disturbance, in Sections 28, 29 and 33, Township 11 South, Range 18 East, Uintah County, Utah. The name of the mine is the Sand Wash Oil Shale Test Program, the person representing the company in this matter is Mr. Delbert Thomas, President, P.O. Box 44, Redlands, California 92373.

Shale Development Corporation has fulfilled obligations under the Utah Mined Land Reclamation Act of 1975 (Section 40-8, U.C.A., 1953, as amended), and will employ the following mining and reclamation practices on approximately 20 acres of Fee land.

During Operations:

1. This project will be an "on-site" evaluation of ore crushing, handling and retorting prior to later development of a viable mine plan.
2. The current access road will be extended in a southerly direction through the 10 foot thick Stillwater Zone of oil shale. This will provide approximately 65,000 cubic yards of excavated overburden and 30,000 cubic yards of oil shale. Where available, topsoil will be removed, stored and bermed to prevent erosion.
3. Overburden will be compacted as fill below the area of excavation. The oil shale will be stored until processed, out of the prevailing wind patterns within the wash area. Berms leading to a drainage culvert will be placed around the storage area to control runoff.
4. Spent shale from the pilot retort testing will be compacted in fill areas daily to minimize blowing dust. Containment berms will minimize ground percolation.
5. OSHA approved warning signs will be placed in and around the mining area. There is no expected discharge from mining operations and no anticipated highwalls will be generated during mining.

After Operations:

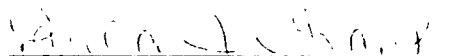
1. The area of disturbance is planned for less than twenty (20) acres. Approximately 5-1/2 acres of the area will be roads and not reclaimed by the request of the landowners, Sand Wash Mining Company.
2. All equipment, buildings, foundations, piping and storage tanks will be removed and the property left clean of foreign material and debris.
3. Areas affected by mining will be leveled, available stored topsoil redistributed and the area reshaped to approximately the existing terrain.
4. The area will be planted with a seed mix of grasses, forbs and shrubs approved by the Division biologist.

Reclamation performance surety will be established prior to issuing final approval of the mining and reclamation plan.

Any person or agency aggrieved by this tentative decision is hereby requested to submit written protest within 30 days of the date of publication to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah, setting forth factual reasons for their complaint and thereafter, at a time and place heretobe established, appear before the Board of Oil, Gas and Mining to show cause, if any there be, why this plan should not be approved.

DATED this 1st day of April, 1983.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING



PAULA J. FRANK
Secretary of the Board